AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) In a computer system, a method for providing improved real time command execution in a non real time operating system, comprising:

executing at least one application at a user mode level of the non real time operating system running on ~~from~~ at least one Central Processing Unit (CPU) ~~running the non real time operating system~~;

having said at least one application at said user mode level determine a sequence to be followed for a set of commands;

providing from said at least one application said sequence of commands to a privileged mode of said non real time operating system to be executed in real time;

storing ~~said sequence of~~ commands of said sequence of commands in a command queue to be accessible from the privileged mode of said non real time operating system;

accessing the command queue from a software command dispatcher operating in the privileged mode of the non real time operating system and selecting the commands therefrom; and

initiating one at a time, from the privileged mode of said non real time operating system and using the at least one CPU and the software command dispatcher, real time execution of each of said commands ~~from said stored sequence of commands~~.

2. (Currently Amended) The method as claimed in claim 1, wherein a plurality of sequences of asynchronous commands is provided, each sequence of the plurality of sequences being related to a corresponding application thread, further wherein said storing ~~said sequence of~~ commands is performed in a corresponding queue from the execution of said corresponding application thread.

3. (Original) The method as claimed in claim 1, wherein a synchronous command is added to said sequence of commands, said at least one application sleeping until said synchronous command is executed.

4. (Currently Amended) The method as claimed in claim 2, wherein a synchronous command is added to said plurality of sequences of asynchronous commands, said corresponding application thread sleeping until said synchronous command is executed.

5. (Currently Amended) The method as claimed in claim 1, wherein ~~said non-real-time operating system is Microsoft Windows and~~ said storing said ~~sequence of~~ commands is performed through execution of a driver routine ~~from a DLL file~~.

6. (Original) The method as claimed in claim 5, wherein said providing said sequence of commands involves said commands being pushed one at a time through a system call.

7. (Currently Amended) The method as claimed in claim 1, wherein at least one of said ~~stored~~ commands stored in the command queue is a branch command to control ~~the~~ an order of execution of said ~~stored~~ commands.

8. (Currently Amended) The method as claimed in claim 1, wherein said ~~executing~~ initiating, one at a time, real time execution of said commands ~~from said stored sequence of commands~~ is done at an Interrupt Service Routine level of ~~a different~~the privileged mode ~~level~~.

9. (Cancelled)

10. (Cancelled)

11. (Original) The method as claimed in claim 1, wherein said sequence of commands process a same data set.

12. (Original) The method as claimed in claim 11, wherein said same data set is a video camera image being captured and processed in real time.

13. (Original) The method as claimed in claim 1, wherein said providing said sequence of commands involves said commands being pushed one at a time through a system call.

14. (Currently Amended) The method as claimed in claim 1, wherein said storing said ~~sequence of~~ commands is performed through execution of a driver routine from a system file.